Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Date: 13-12-19

Lab ID	:	**CP-2020-02-25-100**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance of Footpath and Roads in Ward No.04
Agency	:	Sri.Tulasiram Reddy, #131, 4th Cross, A Block, Kaveri Nagar, Kavalbyrasandra, Bangalore-560032
Customer's Reference	:	EE(Project)/YnkZone/WO/124/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-12-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	11-12-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-02-25-100** **Date: 13-12-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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Technical Manager

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Project Division

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2020-02-25-100** **Date: 27-12-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance of Footpath and Roads in Ward No.04
Agency	:	Sri.Tulasiram Reddy, #131, 4th Cross, A Block, Kaveri Nagar, Kavalbyrasandra, Bangalore-560032
Customer's Reference	:	EE(Project)/YnkZone/WO/124/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-12-19
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex - C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	24-12-19

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2016)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	405	201	199	16200	33.895	2092.3	2080.6	Not less than 1800Kg/m^3
2	399	203	203	16442	33.319	2026.4		
3	400	198	198	15682	33.293	2123.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : CP-2020-02-25-100 Date: 27-12-19

DIMENSION ANALYSIS

Slno	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	203	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	399	200	203	
3	400	203	200	
4	403	199	201	
5	401	201	201	
6	401	199	201	
7	401	201	199	
8	402	201	200	
9	400	200	202	
10	400	200	200	
11	400	200	199	
12	399	200	201	
13	403	200	199	
14	403	200	203	
15	400	200	199	
16	403	202	202	
17	402	200	201	
18	400	199	201	
19	402	199	200	
20	403	199	200	
Average of 20	**401**	**200**	**201**	

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: CP-2020-02-25-100 Date: 27-12-19

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	203	81052	412.8	5.1	5.2
2	399	200	80003	418.6	5.2	
3	400	203	81052	413.1	5.1	
4	403	199	80191	419.9	5.2	
5	401	201	80582	419.2	5.2	
6	401	199	79921	416.2	5.2	
7	401	201	80379	420.4	5.2	
8	402	201	80707	417.7	5.2	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Technical Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2020-02-25-100	Date: 23-12-19
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Maintenance of Footpath and Roads in Ward No.04	
Agency	:	Sri.Tulasiram Reddy, #131, 4th Cross, A Block, Kaveri Nagar, Kavalbyrasandra, Bangalore-560032	
Customer's Reference	:	EE(Project)/YnkZone/WO/124/2019-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	19-12-19	
Sample Type /Size	:	Precast Cover Slab (100mm)	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	19/12/2019	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2020-02-25-100**	**Date: 01-01-20**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Maintenance of Footpath and Roads in Ward No.04	
Agency	:	Sri.Tulasiram Reddy, #131, 4th Cross, A Block, Kaveri Nagar, Kavalbyrasandra, Bangalore-560032	
Customer's Reference	:	EE(Project)/YnkZone/WO/124/2019-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	28-12-19	
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	28/12/2019	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/12/2019

Lab ID	:	CP-2020-02-25-100
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance of Footpath and Roads in Ward No.04
Agency	:	Sri.Tulasiram Reddy, #131, 4th Cross, A Block, Kaveri Nagar, Kavalbyrasandra, Bangalore-560032
Customer's Reference	:	EE(Project)/YnkZone/WO/124/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-12-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	16/12/2019	23/12/2019	150.04 X 150.21 X 150.20	22538	**8.913**	273.2	12.1	12.3
2	PCC	M15	16/12/2019	23/12/2019	150.76 X 151.70 X 149.39	22871	**8.890**	281.1	12.3	
3	PCC	M15	16/12/2019	23/12/2019	149.88 X 150.96 X 151.69	22626	**8.111**	280.4	12.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-02-25-100 **Date: 13/01/2020**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance of Footpath and Roads in Ward No.04
Agency	:	Sri.Tulasiram Reddy, #131, 4th Cross, A Block, Kaveri Nagar, Kavalbyrasandra, Bangalore-560032
Customer's Reference	:	EE(Project)/YnkZone/WO/124/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-12-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	16/12/2019	13/01/2020	150.11 X 150.43 X 149.09	22581	**8.421**	400.3	17.7	17.6
2	PCC	M15	16/12/2019	13/01/2020	151.82 X 151.85 X 150.35	23054	**8.278**	404.4	17.5	
3	PCC	M15	16/12/2019	13/01/2020	151.16 X 151.17 X 151.95	22850	**8.758**	400.4	17.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-02-25-100 **Date: 23/12/2019**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Maintenance of Footpath and Roads in Ward No.04

Agency : Sri.Tulasiram Reddy, #131, 4th Cross, A Block, Kaveri Nagar, Kavalbyrasandra, Bangalore-560032

Customer's Reference : EE(Project)/YnkZone/WO/124/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-12-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	16/12/2019	23/12/2019	150.25 X 149.60 X 150.66	22477	**8.913**	280.1	12.5	12.6
2	PCC	M15	16/12/2019	23/12/2019	151.92 X 151.13 X 151.46	22960	**8.890**	289.2	12.6	
3	PCC	M15	16/12/2019	23/12/2019	151.84 X 149.58 X 150.24	22712	**8.111**	291.6	12.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

[illegible]	:	CP-2020-02-25-100 **Date: 13/01/2020**
[illegible]	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
[illegible]	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance of Footpath and Roads in Ward No.04
Agency	:	Sri.Tulasiram Reddy, #131, 4th Cross, A Block, Kaveri Nagar, Kavalbyrasandra, Bangalore-560032
Customer's Reference	:	EE(Project)/YnkZone/WO/124/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-12-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	16/12/2019	13/01/2020	151.03 X 149.76 X 151.14	22619	**8.421**	386.3	17.1	17.2
2	PCC	M15	16/12/2019	13/01/2020	149.21 X 149.57 X 150.34	22318	**8.278**	384.0	17.2	
3	PCC	M15	16/12/2019	13/01/2020	150.91 X 149.05 X 150.10	22492	**8.758**	388.0	17.3	

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BBMP, Bangalore

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